



Mugberia Gangadhar Mahavidyalaya

Estd.-1964

NAAC Re-Accredited 'B'+ Level Govt. aided College
CPE (Under UGC XII Plan) & NCTE Approved Institutions
DBT Star College Scheme Recipient.

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TEACHER'S DIARY

Department of ...Chemistry.....

Class Sem I, II, III, IV, V, VI - GE-I, II - B.Voc

Subject Chemistry

Session 2022- 2023 , 2023-2024

Teacher's Name Minakshi Maity

Time Table For Odd Semester

DAYs	1	2	3	4	5	6	7	8	9	10
Monday			SEM- <u>III</u> C ₆ T		SEM-V C ₁₁ T	SEM-V DSE	SEM-V -2P			
Tuesday			SEM-V C ₁₁ T	SEM-I GCE	SEM-I 1P (Nut)					
Wednesday		SEM- <u>III</u> B-VOC	SEM- <u>III</u> C ₆ T	SEM-I GCE	SEM-I 1P (Math)					
Thursday			SEM- <u>III</u> DSC-ICT	SEM-V B.VOCT		SEM- <u>III</u> GCE-3P	SEM- <u>III</u> GCE-3P			
Friday										
Saturday										
Sunday										

SUMMARY

Class	SEM- <u>III</u>	SEM- <u>V</u>	SEM-I	
Subject	Chemistry	Chemistry	Chemistry	
No. of Periods	6	5		

Time Table For Even Semester

DAYs	1	2	3	4	5	6	7	8	9	10
Monday		SEM- <u>VI</u> C ₁₃ T	SEM-IV C ₉ T	SEM-II C ₃ T						
Tuesday	SEM- <u>VI</u> C ₁₃ T				SEM-IV C ₉ T	SEM-II GCE	SEM-II -2P(Math)			
Wednesday		SEM- <u>IV</u> C ₉ P	SEM- <u>IV</u> C ₉ P	SEM- <u>IV</u> B.VOCT	SEM- <u>II</u> GCE	SEM-II GCE- 2P (Nut)				
Thursday		SEM-II C ₃ T	SEM-II GCE 2T	SEM- <u>IV</u> C ₉ P	SEM- <u>IV</u> C ₉ P					
Friday										
Saturday										
Sunday										

SUMMARY

Class	SEM- <u>II</u>	SEM- <u>IV</u>	SEM- <u>VI</u>	
Subject	Chemistry	Chemistry	Chemistry	
No. of Periods	7	6	2	

2. A Syllabus of the Work in Outline

SEM-II

(C₃T)

⇒ Extra nuclear Structure of atom =

⇒ Chemical Periodicity ⇒

Modern IUPAC Periodic table, Effective nuclear charge, screening effects and penetration, Slater's rules, atomic radii, ionic radii, covalent radii, Lanthanide contraction. Ionization potential, electron affinity and electronegativity and factors influencing these properties, group electronegativity. Group trends and periodic trends in these properties in respect of s, p, and d block elements. Secondary periodicity, Relativistic Effect, Inner pair effect.

⇒ Acid - Base Reactions : ⇒

Acid - Base concept: Arrhenius concept, theory of solvent system, Brønsted-Lowry concept, group characteristics of Lewis acid, solvent levelling and differentiating effects, Thermodynamic acidity parameter, Brønsted-Lowry equation, Super acids, Gas phase acidity and proton affinity, HSAB principle, Acid-base equilibrium in aq. solution, pH, buffer, Acid-base neutralisation curves, indicator, choice of indicator.

⇒ Redox Reactions and precipitation Reactions : ⇒

C₃P

⇒ Acid and Base Titrations:

⇒ oxidation-reduction Titrimetric:

SEM-III

(C₆T)

⇒ Chemical Bonding - I

(i) Ionic Bond \Rightarrow General characteristics, types of ions, size effect, radius ratio rule and its application and limitations, packing of ions in crystals, Born-Landé equation with derivation and importance of Kauyatskii expression for lattice energy, Madelung constant, Born-Haber cycle and its application, Solvation energy, Defects in solids, Solubility energetics of dissolution process.

(ii) Covalent Bond \Rightarrow Polarizing power and polarizability, ionic potential, Fajan's rules, Lewis structures, formal charge, Valence bond Theory, The hydrogen molecule (Heitler-London), directional behaviour of covalent bonds, hybridizations, equivalent and non-equivalent hybrid orbitals, Bent's rule, Dipole-moments, VSEPR theory, Shapes of molecules and ions containing lone pairs and Bond pairs and multiple bonding.

⇒ Chemical Bonding - II

⇒ Radioactivity \Rightarrow

⇒ Iodo-/Iodimetric Titrations

⇒ Estimation of metal content in some selective samples.

3. Detailed Syllabus

(A) First Term

From To

SFM-JV

(CoT)

⇒ General principles of Metallurgy ⇒

⇒ Chemistry of s and p Block Elements ⇒

Relative stability of different oxidation states, diagonal relationship and anomalous behaviour of first member of each group. Allotropy and catenation. Study of the following compounds with emphasis on structure, bonding, preparation, properties and uses. Boron hydrides and halides, Boric acid and Borates, boron nitrides, boro hydrides and graphitic compounds, silanes, oxides and oxo acids of nitrogen, phosphorous, sulphur, and chlorine. Peroxo acids of sulphur, Sulphur-nitrogen compounds, interhalogen compounds, polyhalide ions, pseudo halogens, fluorocarbons and basic properties of halogens.

⇒ Noble Gases :-

Occurrence and uses, rationalization of inertness of noble gases, Clathrates, preparation and properties of XeF_2 , XeF_4 and XeF_6 , Nature of bonding in noble gas compounds. Xenon-oxygen compounds. Molecular shapes of noble gas compounds.

⇒ Inorganic Polymers.

⇒ Co-ordination chemistry - I

(CoP)

⇒ Complexometric titration =

1. $Zn^{(II)}$
2. $Ca^{(II)}$ and $Mg^{(II)}$ in a mixture.
3. Hardness of water.

⇒ Inorganic preparations:

1. Cis and trans $K[Cr(SO_4)_2(H_2O)_2]$
2. Tris-ethylene diamine nickel (II) chloride.
3. Tetraammine carbonato cobalt (III) ion
4. $Mn(C_{acac})_3$ and $Fe(C_{acac})_3$

⇒ Co-ordination Chemistry - II

⇒ Chemistry of d and f-block elements:

Transition elements:

General comparison of 3d, 4d, and 5d elements in term of electronic configuration, oxidation state, redox properties, co-ordination chemistry.

Lanthanoids and Actinoids:

General comparison on electronic configuration, oxidation states, colour, spectral and magnetic properties, Lanthanide contraction, separation of Lanthanides.

3. Detailed Syllabus (B) Second Term

From To

(C₁₁P)

⇒ Chromatography of metal ions =

⇒ Gravimetry

⇒ Spectrophotometry

SFM-VI

(C₁₃T)

⇒ Bioinorganic Chemistry

⇒ Organometallic chemistry ⇒

Definition and classification of organometallic compounds on the basis of bond type. Concept of hapticity of organic ligands. 18-electron and 16-electron rules. Applications of 18-electron rule to metal carbonyls, nitrosyls, cyanides. General methods of preparation of mono and binuclear carbonyls of 3d series. Structure of mono and binuclear carbonyls, pi-acceptor behaviour of CO, synergic effect and use of IR data to explain extent of back bonding. Zeise's salt: Preparation, structure, evidence of synergic effect. Ferrocene: Preparation and reactions. Reactions of organometallic complexes: Substitution, oxidative addition, reductive elimination and insertion reactions.

⇒ Catalysis by Organometallic Compounds ⇒

Study of the following industrial processes -

alkene hydrogenation, hydroformylation, Wacker process,

Fischer-Tropsch reaction and Zeigler-Natta catalysis.

⇒ Reaction Kinetics and Mechanism.

(GCE-1 T)

SFM - I

Inorganic chemistry - I

⇒ Atomic Structure ⇒

(V-M 32)

(1.5 P)

⇒ Chemical periodicity ⇒

⇒ Acids and Bases ⇒

⇒ Redox reactions ⇒

Inorganic chemistry ⇒

1. Estimation of sodium carbonate and sodium hydrogen carbonate present in a mixture.

2. Estimation of oxalic acid by titrating it with KMnO₄

3. Estimation of water of crystallisation in Mohr's salt by titrating with KMnO₄

4. Estimation of Fe(II) ions by titrating it with K₂Cr₂O₇ using internal indicator.

5. Estimation of Cu(II) ions iodimetrically using Na₂S₂O₃

3. Detailed Syllabus

(C) Third Term

From To

(SEM-2)

(GSE-2T)

(revised)

Inorganic Chemistry - II

⇒ Chemical bonding and Molecular Structure.

Ionic bonding : General characteristics of ionic bonding, Lattice energy, Born-Haber cycle, Born-Landé equation, polarising power and polarizability, Fajan's rule, dipole moment.

Covalent Bonding : VSEPR theory and hybridisation with suitable examples of Linear, trigonal planar, square planar, tetrahedral, trigonal bi pyramidal and octahedral arrangements.

Concepts of resonance of various organic and inorganic compounds and M.O approach.

⇒ Comparative study of p-block elements.

(GSE-2P)

Inorganic Chemistry Lab ⇒

Quantitative semi micro analysis of mixtures containing three radicals.

Acid Radicals : Cl^- , Br^- , I^- , NO_2^- , NO_3^- , S^{2-} , SO_4^{2-} , PO_4^{3-} , BO_3^{3-}

BASIC Radicals : Na^+ , K^+ , Ca^{2+} , Ba^{2+} , NH_4^+ , Fe^{3+} , Ni^{2+} , Cu^{2+}

B.Voc

(Part-II)

Inorganic Chemistry \Rightarrow

1. Comparative Study of P-block elements:

2. Acid-base concept:

Arhenius and Brønsted-Lowry concept,
relative strength of acids and bases, Lux-Flood concept, Lewis
concept, pH, buffer, HSAB principle.

3. Redox chemistry:

Balancing of equation by ion-electron
method. Nernst equation, formal potential, disproportionation
and comproportionation reaction.

4. Chemical equilibrium:

Paper-III

Inorganic qualitative analysis.

Inorganic quantitative analysis.

IV. DIARY

Date week ending	FORCAST	Amount Taught
8/09/22	Question and answer discussion on the chapter organometallic chemistry.	JP
9/09/22	Synthesis, preparation, properties of NO_2 and N_2O_5	JP
10/09/22	Theory of acid - bases	JP
11/09/22	Question and answer discussion on the chapter of organometallic chemistry	JP
12/09/22	Structure, preparation and properties of anide of P	JP
13/09/22	Estimation of hardness of water	2P
14/09/22	Question and answer for comparing acidity - basicity	JP
15/09/22	Estimation of Zn^{2+} in a sample	2P
Date	Home task for the week	

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-I	Students are very interested on discussion.	
SEM-II	Students went the class through willing.	
SEM-III	Students are satisfied	
SEM-(V)	Very interested	
SEM-(V)	Very much interested	
SEM- <u>VI</u>	Very interested	
SEM- <u>VII</u>	Very interested	
		
		17-09-22
		Principal Mahavidyalaya, Nagpur

IV. DIARY

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-II	Students are very much excited to draw ionic bonding between various elements.	
SEM-IV	Students want to take class notes.	
SEM-III	Students are very much interested.	
SEM-VI	Students give the answers very correctly.	
SEM-V	Students clearly note down the class notes.	
SEM-I	Students are very much attentive in the class.	
GCE-I		
		<i>S. Sonawane 24-8-2022 Principal Mugberla Gangadhar Marathwada Vidyalaya</i>

IV. DIARY

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
1st (G.F-1) SEM	Very much interested and curious	
1st (F-1) SEM	They are very curious and want class note	
Sem-V	They want class note	
SEM-I GCE-I	Students listen and understand the class very carefully.	
SEM-V	Students note down the class notes very carefully	
SEM-IV	Students are very attentive in the class.	
		<p>Bonim 5.11.22 Principal Mysore Gangadhar Mahavidyalaya</p>

IV. DIARY

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM - II	Students are interested about the class	
SEM - V	Very poor presence of students but present students are very much interested	
SEM - III	They are interested to calculate the values of radius ratio	
B.Voc 2nd yr	They give good response	
GCE-1 (Math)	They are very serious for listening the practical procedure.	
GCE-3	They are very attentive in class.	
		Signature 12/11/2022
		Principal Mugberia Gangadhar Mahavidyalaya

IV. DIARY

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Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM - V	Students are interested and they want to clear their doubt about spectra.	
SEM - III	They are very much attentive.	
SEM - I (G.E.I)	They are very interested.	
SEM - III	They are very much attentive.	
SFT Brac	They are very curious.	
G.E-I (Math)	Practical is done very sincerely.	
G.E-I	They are very interested in the class.	 19-11-2022 Principal Kendriya Vidyalaya Sangathan

IV. DIARY

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Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
B. Voc	Students are very much attentive in the class.	
GCE-2	Students are very much active and they do well in home task	Principal Magharib Computer Mathematics
(GCE-1)	Students are very interested in the class.	
SEM - III	Students are very much interested.	
SEM - V	Students note down the class note clearly.	Principal 26-11-2022 Magharib Computer Mathematics

IV. DIARY

Date week ending	FORECAST	Amount Taught
	Packing of ions in crystal and defect in ionic crystals	1P
	Balancing of ionic equation by oxidation state method.	1P
	Spectra of Lanthanides and Lanthanide contraction	1P
28/11/22 -3/12/22	Isolation of Lanthanides by ion-exchange method.	1P
	Instruction of the practical of estimation of oxalic acid by standard KMnO ₄	2P
	R ⁺ and problems related to this.	1P
	Defect in ionic crystal	1P
	Estimation of oxalic acid by Standard KMnO ₄ solution.	2P
Date	Home task for the week	
28/11/22	Balance three redox equation by oxidation state method.	

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-3	Students are very much attentive in class.	Good Principal 28-11-22 Mangala Computer Mathematics
GE-E-1	They are very much serious.	Good Principal 28-11-22 Mangala Computer Mathematics
SEM-5	They are very attractive about the class.	Good
SEM-V	They are very attentive in the class.	Good Principal 28-11-22 Mangala Computer Mathematics
SEM-1 GE-E-1	They are very much serious. Sihai and est- mi sapan selam	Good Principal 28-11-22 Mangala Computer Mathematics
B-VOC	Students are very attentive.	
SEM-3	very much attractive.	
GE-E-1 (Math)	They do well in the practical class.	
GE-E-1	They do all correctly	

IV. DIARY

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V. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-III	Very much attractive in the class.	
GCF-1	Very much attentive in the class.	Principal Mangala Chatterjee HOD
GCE-1 (Eng)	Very much interested	
GCE-1 (Math)	Very much interested.	
GCE-1 (Sci)	Students do the practical very seriously.	Session Principal 17/12/22 Mangala Chatterjee HOD
SEM-II	Students are very much interested in the class.	

IV. DIARY

Date week ending	FORECAST	Amount Taught
	Rules for hybridisation and classification of hybridisation	1P
	Change of radius along period and Group and change of ionic radius from neutral atom	1P
19/12/22	Detailed study of hybridisation with examples.	1P
-24/12/22	Estimation of crystallisation of water in Mohr salt.	2P
	Estimation of Fe(II) by standard K_2CrO_7 solution	2P
Date	Home task for the week	

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-III	Very interested	
GCE-I(T)	They are very interested.	Principal Magnetoo Conductor Mathematics
SEM-III	The students are very much interested about the class.	
GCE-I (Math)	Students do the practical seriously.	Practical 24/12/22 Magnetoo Conductor Mathematics
SEM-I	Students are very much interested about the practical class.	

IV. DIARY

Date week ending	FORECAST	Amount Taught
	V.S.E.P.R Theory (Rule I and II)	1P
	Ionization potential: Definition Initial factors depends on T.E, Change of it along period and along group with exception.	1P
2/1/23 - 7/1/23	VSEPR Theory (Rule III, IV and (V, VI))	1P
	Constitutional isomers	1P
	Isomerism in Alkanes	1P
	Isomerism in Alkenes	1P
	Isomerism in Alkynes	1P
	Isomerism in Aromatic hydrocarbons	1P
	Home task for the week	

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-II	They are very attentive in the class.	
GE-I	They are very much interested.	Principals Masters Computer Mathematics 1-23
SEM-III	They are very much curious to know the Rule's application.	

IV. DIARY

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Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-III	They are very much interested.	
GCE-1	They are very attentive.	Bishnu 1/1/23 Principal Magister Christian Matriculation
GCE-1(N.n.a)	They are very attractive.	
SEM-III	They are very attentive in the class.	
GCE-1 (Math)	They are very much interested.	

IV. DIARY

Date week ending	FORECAST	Amount Taught
	Electronegativity; definition, Factors affecting electronegativity, Change of electronegativity along period and group	1P
16/01/23	Estimation of oxalic acid by titrating with KMnO ₄	2P
23/01/23	Lewis dot str and formal charge application	1P
	Discussion of question and answers for the chapter of chemical periodicity	1P
Date	Home task for the week	

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
GCE-I T	They are very much attentive in the class.	
GCE-I (Nur)	They are very serious in the practical class.	Practical 21-1-23 Under supervision
SEM-III	They are very attentive in class.	
GCE-I T	They are very interested in class.	

IV. DIARY

V. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
G/F-1 P(NW)	They are very serious in practical classes.	
SF M-III	They are very interested.	 Principal 28/1/23 Mangala Computer Mathematics
G/F-1 P (Maths)	Students are very much serious in practical classes.	

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Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
GCE-1 T	Students are very attentive in the class room.	
GCE-1 P	Students are very attractive in the class.	
GCE-1 T	Students are curious in the class room.	Environment Principal Students Competitive Mathematics
GCE-1 P	Students are very much attractive in the classroom.	
GEM- VI	Students are interested to listen the class.	

IV. DIARY

TV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM - VI	They are very much serious to listen this.	
SEM - IV	They are very attractive	
	and give some question on	
	this.	
SEM - VI	They are curious to under	Stand the facts.
		Date 4.3.23 Principal Maha Chaitanya
SEM - IV	They notedown it carefully.	

IV. DIARY

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM-VI	They done this correctly.	(about 14-15 min. of time taken)
SEM-IV	They done the practical very carefully and give the accurate result.	Date : 11.3.2018 Signature : 
SEM-II	been working uniformly & effectively.	Date : 11.3.2018 Signature : 
SEM-I	been working uniformly & effectively.	Date : 11.3.2018 Signature : 
SEM-III	been working uniformly & effectively.	Date : 11.3.2018 Signature : 
SEM-V	been working uniformly & effectively.	Date : 11.3.2018 Signature : 
SEM-VII	been working uniformly & effectively.	Date : 11.3.2018 Signature : 
SEM-VIII	been working uniformly & effectively.	Date : 11.3.2018 Signature : 
SEM-VI	been working uniformly & effectively.	Date : 11.3.2018 Signature : 
SEM-VII	been working uniformly & effectively.	Date : 11.3.2018 Signature : 
SEM-VIII	been working uniformly & effectively.	Date : 11.3.2018 Signature : 
SEM-IX	been working uniformly & effectively.	Date : 11.3.2018 Signature : 
SEM-X	been working uniformly & effectively.	Date : 11.3.2018 Signature : 
SEM-XI	been working uniformly & effectively.	Date : 11.3.2018 Signature : 
SEM-XII	been working uniformly & effectively.	Date : 11.3.2018 Signature : 

IV. DIARY

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
<u>SEM - VI</u>	They are very much interested to take the class.	
<u>SEM - IV</u>	They do this correctly and accurately.	 Principal 13-3-23 Maheta Computer Mathematics
<u>SEM - V</u>	They note down carefully.	
<u>SEM - IV</u>	They do the practical very carefully but major students do not provide correct result.	
<u>SEM - IV</u>	They note down the facts very carefully.	

IV. DIARY

TV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM - VI	They are very much interested to note down the board work properly.	
SEM - IV	Students are very much active in the class and they write the class notes thoroughly.	Session 15-3-23 Master's Computer Works & Co.
SEM (IV) Practical	They are very much careful in the practical class and do the practical correctly.	
SEM - VI	The students are very much interested in the class.	
SEM - V	Students note down the class notes properly.	

IV. DIARY

V. DIARY

IV. DIARY

TV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM - VI	Students listen the class very carefully.	
SEM - IV	Students note down the class notes very carefully.	
SEM - VI	Students are very much active in the class.	
SEM - IV	They note down the class carefully.	

IV. DIARY

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM - VI	They listen the lesson carefully.	
SEM - IV	They note down the class notes correctly.	<i>Zaroori</i> Principal Mehra College Mathematics 11/23
SEM - VI	They are very much serious in the class.	
SEM - III	They listen the lesson carefully.	
GCE - I T	They are very carefull in the class.	<i>Zaroori</i> Principal Mehra College Mathematics 11/23
SEM - V	They listen the lesson very carefully.	
GCE - I P	They do the practical very carefully and correctly.	

IV. DIARY

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Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOI
SEM-II	They note down the class notes and listen carefully.	
SEM-IV	They note down the class notes.	
GCF-1 T	They note down the class notes.	
SEM-VII	They listen the lesson and note down the class notes.	<i>Bonon</i> Principal 212-23 Wardha Government Administration
SEM-V	They note down the class notes.	
Minor-1 P (Math)	They do the practical carefully and correctly.	(J)

IV. DIARY

Date week ending	FORECAST	Amount Taught
	Some question- answers on lattice energy.	1P
09/12/23	Introduction and oxidation states of 4d elements.	1P
- 09/12/23	Concept of Conjugate acid and base	1P
	Estimation of no of crystalline water in Mohr salt.	2P
	Concept of hydration energy and explanation of some question and answer on it.	1P
11/12/23 -	Redox and complexing property	1P
16/12/23	of 4d elements.	
	Lewis theory of acid- Base.	1P
	Estimation of no of crystal water in Mohr salt.	2P
Date	Home task for the week	

IV. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM - VI	They answer the questions correctly.	
SEM - V	They note down the class notes.	
Minor - I T	They are very active in class.	Term 1, 12-23 Practical Major & Minor subjects
Minor - I P (Nutrition)	They do the practical carefully.	
SEM - III	They listen the class carefully.	
SEM - V	They note down the class notes.	Term 1, 12-23 Practical Major & Minor subjects
Minor - I T	They note down the class notes.	
Minor - I P (Maths)	They do the practical carefully.	

IV. DIARY

IV. DIARY

IV. DIARY

V. DIARY

Class and Subject	Notes and observation by the teacher	Remarks by Principal or HOD
SEM - III	They note down the class notes carefully.	
Minor - I T	They listen the less attentively.	Semester 61-24 Principal Mangala Computer Mathematics
Minor - I P (Nutrition)	They do the practical correctly.	
SEM - II	They are very much serious	
Minor - I T	They note down the class notes.	Semester 72-24 Principal Mangala Computer Mathematics
SEM - II	They are very much active in class.	
Minor - I P (Math)	They do the practical correctly.	